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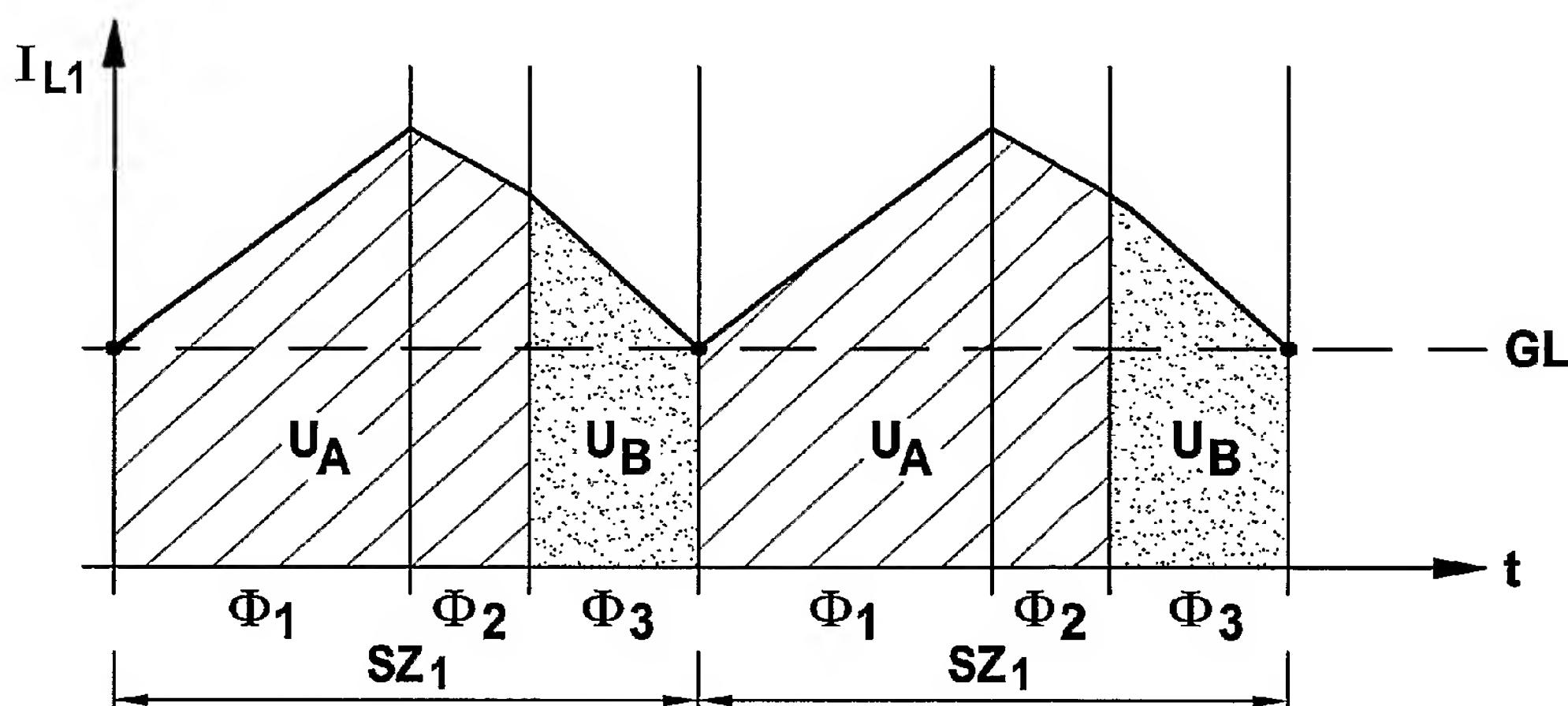
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(54) Title: METHOD OF OPERATING A DC/DC UP/DOWN CONVERTER



(57) Abstract: A method for an up-down converter which is based on a buck converter during the current down-conversion phase (Φ_2 , Φ_3 and Φ_5 , Φ_6 , respectively) of the coil (L_1) supplies an output (B) with a relatively high output voltage (U_B), where $U_B > U_{in}$. The down-conversion phase of the coil current (I_{L1}) comprises at least two different down-conversion phases (Φ_2 , Φ_3 and Φ_5 , Φ_6 , respectively). A method for an up-down converter, which converter is based on a boost converter, supplies during the current up-conversion phase (Φ_7 , and Φ_{10} , respectively) of the coil (L_2) an output (D) which has a relatively low output voltage (U_D) with power, where $U_D > U_{in}$. The up-conversion phase of the coil current (I_{L2}) comprises at least two different current reduction phases (Φ_7 , Φ_8 and Φ_{10} , Φ_{11} respectively).

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